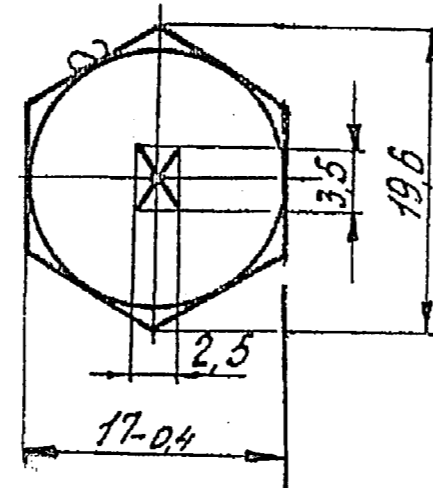
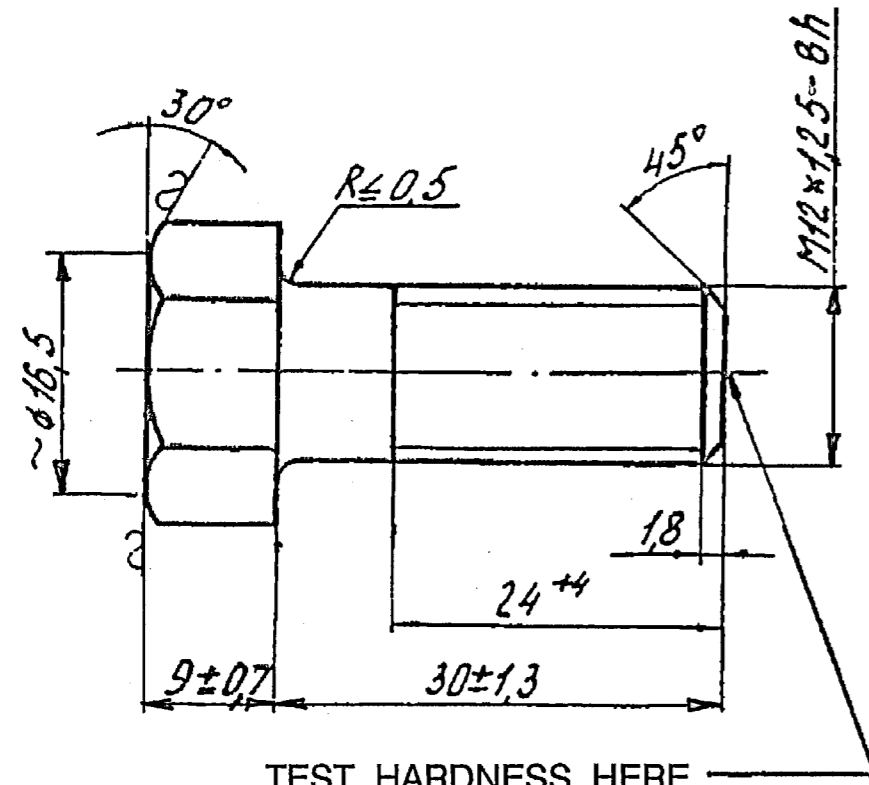


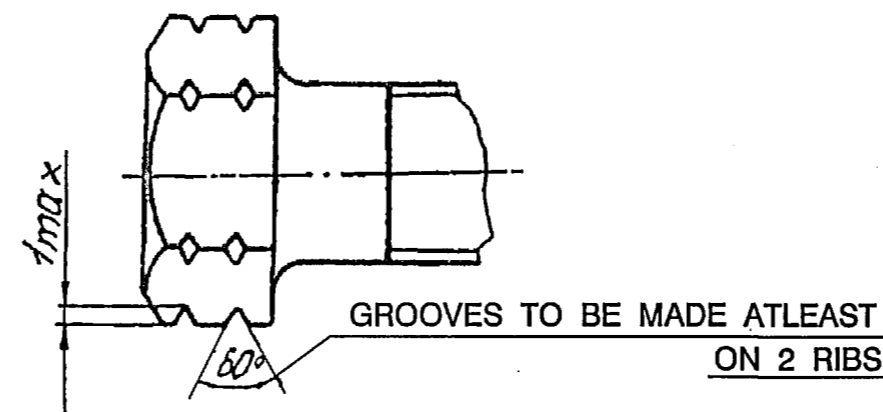
DRAWING NUMBER
54.30.1032

SHEET No. 1 OF 1

▽3 (▽)



MARKING ALTERNATIVE



EXPLANATORY NOTE :-

10. REFERENCE MATERIAL QUOTED :- CHROME SILICON STEEL BAR TO GOST 4543 - 71 GRADE 38XC

a) CHEMICAL COMPOSITION :-

| STEEL GRADE | CONTENT OF ELEMENTS % | | | | | |
|-------------|-----------------------|--------------|--------------|--------------|--------------|-----------------------------|
| | C | Si | Mn | Cr | Ni | S P Cu |
| 38XC | 0.34 0.42 | 1.00 1.40 | 0.30 0.60 | 1.30 1.60 | 0.3 (MAX) | MAXIMUM 0.035 0.035 0.30 |

b) MECHANICAL PROPERTIES :-

| STEEL GRADE | HEAT TREATMENT | | COOLENT | TEMPERATURE °C | COOLENT | YIELD POINT Kgf / mm ² | UTS Kgf / mm ² | ELONGATION % (min) | REDUCTION IN AREA % | IMPACT STRENGTH Kgm / cm ² | LIMITING RULING SECTION mm |
|-------------|------------------------------|-------------------------------|---------|----------------|--------------|--------------------------------------|------------------------------|--------------------|---------------------|--|-------------------------------|
| | HARDENING | TEMPERING | | | | | | | | | |
| | I st HARDENING °C | II nd HARDENING °C | | | | | | | | | |
| 38XC | 900 | — | OIL | 630 | WATER OR OIL | 75 | 95 | 12 | 50 | 7 | 25 |

- DISPLACEMENT OF HEXAHEDRON RELATIVE TO SHANK NOT TO EXCEED 0.4 MM.
- BURRS ARE NOT ALLOWED.
- TO IDENTIFY MATERIAL OF COMPONENT IT IS ALLOWED TO PUT LETTER "X" ON TOP OF BOLT HEAD (TYPE No. 4 ПО - 6, GOST 2930 - 62).
- TO BE HARDENED TO BHN 302 - 255 (DIA OF INDENTATION 3.5 - 3.8).
- HARDNESS TEST ALLOWED ON TOP AND FACES OF THE BOLT HEAD.
- UNTHREADED SHANK PORTION MAY BE MACHINED TO EQUAL THREAD PITCH DIA, IN WHICH CASE HEAD TO SHANK TRANSITION RADIUS MAY BE INCREASED UP TO 0.8 MM.
- COATING Zn 6 Cr.
- FOR THE REST OF THE TECHNICAL REQUIREMENTS REFER TO GOST 1759 - 70.
- ALLOWED IS INDUCTION HARDENING TO BHN 415 - 311 (DIA OF INDENTATION 3.0 - 3.45) IN THIS CASE IMPACT STRENGTH SHOULD BE NOT LESS THAN 9 Kgm/CM².

HARDNESS AND IMPACT STRENGTH TESTS TO BE CARRIED OUT IN ACCORDANCE WITH THE INSTRUCTIONS OF THE METALLURGICAL DEPTH OF THE FACTORY.

** USED ON :-

- 188.56.003cbCb (13B)
- 188.56.004cbCb
- 172.50.002cb
- 172.50.001cb-ACb
- 172.50.002cb-ACb
- 172.50.001cb-bCb (13A)
- 172.50.002cb-bCb
- B 172.50.053cbCb
- B 172.50.054cbCb
- 172.50.001cb

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

EST. WT. (Kg) TO BE STAMPED OR MARKED WHERE INDICATED THUS # (LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

| | | | |
|---|--------------|--|----------------------------|
| DRN | Sd / = | MATERIAL :- STEEL 38XC | USED ON :- ** SEE ABOVE |
| CHD | Sd / = | GOST 4543 - 71 | |
| APPD | Sd / = | | |
| DATE | 07 - 06 - 86 | CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI | |
| SCALE:- 2 : 1 | | | |
| DIMENSIONS IN mm | | TITLE :- BOLT | |
| TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS : 2102 - 69 | | | |
| ISSUE | DATE | NATURE OF AMENDMENTS | D S CAT NUMBER |
| 13B | 12.4.04 | N OF A No. CQA(HV)/T90/56/001 | DRAWING NUMBER |
| 13A | 2.12.92 | USED ON ADDED (AL.14 / 1) | 54.30.1032 |

(R. RAMANI) JTO
03-02-06

" COMMON TO T - 90 "
DRG. RE INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE - 13

F - 41

SIZE A2